<u>Delaware Electric Cooperative</u> Generator Interconnection Application —Long Form

(For Use with Generators Greater than 25 kW and have Aggregated Meters)

An applicant (Generator Owner) makes application to Delaware Electric Cooperative to install and operate a generating facility greater than 25kW interconnected with the Delaware Electric Cooperative utility system.

Section 1, Applicant Informat	ion Directly Inte	rconnecte	d to the Ge	nerating System
Is the following system: Name: Lewis R Atkins		d	or	Member Owned
Mailing Address: 30325 Fir		oad	-	
Laurel		State: DE		ZipCode: 19956
Facility Location (if different from	om above):	72 Fire	Tower Ro	pad, Laurel, DE 19956
Telephone (Daytime): Area Cod	e 302 Number	258-42	76 (Evenin	ng) Area CodeNumber
Delaware Electric Cooperative A				
Section 2, Aggregated Meter I The following aggregated accor	nformation unts shall be rant	ked accora	ing to the o	rder in which credits shall be applied
1 - DEC Member Name Lewi	s R Atkins	Jr.		Rate Code: 1P1
DEC Account No.: 538	4204	_kWh Cre	edit Amt:	Capacity (DEC):
2 - DEC Member Name Lewi	s R Atkins	Jr.		Rate Code: 5P6
DEC Account No.:	0201	_ kWh Cre	edit Amt:	Capacity (DEC):
3 - DEC Member Name		 .		Rate Code:
DEC Account No.:		_ kWh Cre	dit Amt:	Capacity (DEC):
4 - DEC Member Name				Rate Code:
DEC Account No.		kWh Cre	dit Amt	Canacity (DEC):

5 - DEC Member Name		Rate Code:	
DEC Account No.:	kWh Credit Amt;	Capacity (DEC):	<u>.</u>
Section 2, Aggregated Meter Informati			
6 - DEC Member Name		Rate Code:	_
DEC Account No.:	kWh Credit Amt:	Capacity (DEC):	-
7 - DEC Member Name		Rate Code:	
DEC Account No.:	kWh Credit Amt:	Capacity (DEC):	
8 - DEC Member Name		Rate Code:	
DEC Account No.:	kWh Credit Amt:	Capacity (DEC):	
Any additional meters associated with thi	s aggregated system must be supplie	ed on a separate sheet in the sam	e format.
Section 3, Generator Type			
Is Generator powered from a Renewable	Energy Source: XXXX Yes	No	
Type of Energy Source (if applicable):	Solar Wind	Hydro	
Other generator energy source: Diesc	l, Natural Gas Diesel, Fuel Oil	Other:	
Will excess power be exported to Delawa	re Electric Cooperative?	Yes xxx No	
Total Aggregated Maximum Load:	kW (Typical) Maxim	um Export:	kW
Section 4, Generator Technical Informs	<u>ıtion</u>		
Type of Generator: Synchronous		or Solar with Inverter	
Generator (or solar collector) Manufacture (A copy of Generator Nameplate and Manufactu (538 panels)	er, model manie & munioer.	c AC-310P-156-72S d) kW DC	
Inverter Manufacturer, Model Name & No	SMA SB770	0TL-US-22	
W cobh or tuvetier namediare and mannareme	Specification office may be substituted)		
(17 inverters)	Rating in kW: 7.6	8 kW AC	
Generator Characteristic Data (for rotating Not needed if Generator Nameplate and Manufa	g machines); cture's Specification Sheet is provided)		
Direct Axis Synchronous Reactance, X _d : _			
Ddirect Axis Transient Reactance, X'd:		tance: P.U.	
Direct Axis Subtransient Reactance, X",:	P.U. KVA Base:		

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Section 5, Interconnecting Equipment Technical Data

Will an interposing tran	sformer be used	between the gene	rator and the point of	f interconnecti	on? Yes xxx No
Transformer Data (if ap	plicable, for Cu	stomer Owned Tra	ansformer):	L	
(A copy of transformer ivan	пергате ана глания	acturer's Test Report	i may be substituted)		
Size: KVA . Tr	ansformer Prima	ry:Vo	lts Delta	Wye	Wye Grounded
Tr	ansformer Seco	ıdary:	Volts Delta	Wye	Wye Grounded
Transformer Impedance	e:% on _	KVA Base			
Transformer Fuse Data (Attach copy of fuse manufa	(if applicable, for acturer's Minimum	or Customer Owne Melt & Total Cleari	ed Fusc): ng Time-Current Curve	s)	
Manufacturer:	Тур	e:	Size:	Speed: _	
Interconnecting Circuit (A copy of breaker's Namep	Breaker (if appl	icable): ion Sheet may be sub	stituted)		
Manufacturer:	Type: Lo	ad Rating:	Interrupting Rating:	Trip S	Speed:
				(Amps)	(Cycles)
Circuit Breaker Protecti (Enclose copy of any propos	ve Relays (if ap ed Time-Overcurr	<u>plicable):</u> ent Coordination Cu	rves)		
Manufacturer;					
Manufacturer:	_ Type:	_ Style/Catalog No	o.: Propose	d Setting:	
Manufacturer:	_ Туре:	_Style/Catalog No	o.: Propose	d Setting:	
Manufacturer:	_Турс:	Style/Catalog No	o.: Propose	d Setting:	
Manufacturer:	_ Туре:	_Style/Catalog No	o.: Propose	d Setting:	
Current Transformer Da (Enclose copy of Manufactu	ta (if applicable rer's Excitation &	<u>):</u> Ratio Correction Cur	rves)		
Manufacturer:	Туре:	_Accuracy Class:	Proposed	Ratio Connect	tion:/5
Manufacturer;	Туре:	Accuracy Class:	Proposed	Ratio Connect	tion:/5
Generator Disconnect S	witch:				
A lockable disconnect d personnel, by and at the	cost of the owne	er.			
Manufacturer: SQD	Type: fused	Catalog No.:#22	Rated Volts: 2	40 Rated A	mps:_800
Single of 3 Phase. Sing	le Mounting L	ocation, beside	utility meter wit	hin 3 feet	

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Section 8, Installation Details Generating System will be installed by: Owner State Licensed Electrician
Installing Electrician: Robert Miller Firm: Rob's Electric Inc. License No.: 12-002406
Mailing Address: 156 Pleasant Cove Lane
City: DNer State: DE Zip Code: 19904
Telephone with Area Code: 302 343 9030
Installation Date: 1416-2/15/16 Interconnection Date: 2/15/16
Supply certification that the generating system has been installed and inspected in compliance with the local Building/Electrical code of the municipality of
Signed (Inspector): Oute: Date: Output (In lieu of signature of Inspector, a copy of the final inspection certificate may be attached)
Section 9, Generator/Equipment Certification
Generating systems that utilize inverter technology must be compliant with IEEE 1547 and Underwriters Lab. UL 1741. Generating systems must be compliant with Delaware Electric Cooperative's "Technical Requirements for Parallel Operation of Member Owned Generation" document. The Applicant must certify that the installed generating equipment meets the appropriate preceding requirement(s) and can supply documentation that confirms compliance. Generation cannot be turned on until a Delaware Electric Cooperative representative has performed a site visit, installed a warning label near the service meter, and has authorized the system for interconnection.
Section 10, Applicant Signature
I hereby certify that, to the best of my knowledge, all the information provided in the Interconnection Application is true and correct.
Signature of Applicant: Date: 11/17/15

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Name :Tony Ru	therford	MANAGEMENT AND	Date:	3/4/2016
Signature:Tony Rut	herford	Dog-Ayagondas (no Francisco) Di un-bay sandras ATC Co (TEC con) f-trubalos decopson c-US Dis- Milatin (dd) 2.5 c/der		
proper interconnect	tion have been	ny system indicates only that tl n satisfied. Such approval d state and local standards or reg	oes not impl	requirements for a sa y that the Generato
proper interconnect	tion have been ts all federal, s	n satisfied. Such approval d state and local standards or reg	oes not impl	requirements for a sa y that the Generate
proper interconnect Dwner's facility med	tion have been to all federal, so the cks and No.	n satisfied. Such approval d state and local standards or reg <u>stifications</u>	oes not impl	requirements for a sa y that the Generato
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Greenwood, DE 19950